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**Table 1 – Studies Examining Plasma or Serum Tryptophan in HIV infected patients**

<b>Tryptophan concentration</b>	<b>Intervention</b>	<b>Other Measures</b>	<b>Comments</b>	<b>Reference [year]</b>
44.8 $\mu\text{mol/l}$ in infected patients verses 91.0 $\mu\text{mol/l}$ in controls	None specified	KT ratio was 3:1 in patients verses controls	Increased KT ratio suggests that increased TO not dietary or other types of loss explain lower concentration	Werner et al. [1988]
28.4 $\mu\text{mol/l}$ in infected patients verses 39.7 $\mu\text{mol/l}$ in controls	No patients on antiretroviral medications	CSF tryptophan 1.52 $\mu\text{mol/l}$ in infected patients verses 2.18 $\mu\text{mol/l}$ in controls	Lower tryptophan concentrations most pronounced at low CD4 counts	Larsson et al. [1989]
48.8 $\mu\text{mol/l}$ in infected patients with dementia or neuropathy, 70.5 $\mu\text{mol/l}$ in patients without dementia or neuropathy, and 91.1 $\mu\text{mol/l}$ in controls	None specified	Neopterin concentrations have a reciprocal relationship to tryptophan concentrations	Neurological findings correlated with lower tryptophan concentrations.  (Note - same control group as Werner et al.)	Fuchs et al. [1990a]
29.8 $\mu\text{mol/l}$ in infected patients verses 39.7 $\mu\text{mol/l}$ in controls	None specified	Serum IFN $\gamma$ levels were 159 U/liter in patient serum verses 33 U/liter in control serum.	Inverse correlation between tryptophan and IFN $\gamma$ concentrations noted.	Fuchs et al. [1990b]
57 $\mu\text{mol/l}$ in infected patients verses 91 $\mu\text{mol/l}$ in controls	38% of patients on ZDV monotherapy	IFN $\gamma$ 259 U/l in infected patients and 23.5 U/l in controls. Kynurine 3.45 $\mu\text{mol/l}$ in infected patients verses 2.31 $\mu\text{mol/l}$ in controls.	P<0.001 for the inverse correlation between tryptophan and IFN $\gamma$ concentrations. No separate analysis based on antiviral therapy.	Fuchs et al. [1991]
40.2 $\mu\text{mol/l}$ in infected patients verses 70.9 $\mu\text{mol/l}$ in controls	No patients on antivirals	Tryptophan decreases accompanied proportional increases in kynurenine and quinolinic acid in both serum and CSF	Elevated concentrations of the neurotoxic intermediate QA demonstrated.	Heyes et al. [1992]
22 $\mu\text{mol/l}$ in infected patients verses 46 $\mu\text{mol/l}$ in controls	85% of patients on mono or dual nucleoside therapy	Decrease cystine, trypto, methionine, increased taurine, lysine	Trypto and lysine showed trend of lower/higher with cd4 less than 200. No separate analysis based on	Hortin et al. [1994]

			antiviral therapy	
51 $\mu\text{mol/l}$ in infected patients versus 59 $\mu\text{mol/l}$ in controls	None specified	Plasma concentrations of amino acids pre and post IV infusion of amino acids.	Despite lower concentrations, tryptophan does not appear to be rate limiting in protein synthesis in AIDS patients.	Laurichesse et al. [1998]